



**State of New Hampshire**  
**DEPARTMENT OF ENVIRONMENTAL SERVICES**

6 Hazen Drive, P.O. Box 95, Concord, NH 03302-0095  
(603) 271-3406 FAX (603) 271-7894



February 10, 2003

**Letter of Deficiency**  
DSP #03-011

Ms. Lori Barnes  
Colonial Plaza Realty Trust  
C/o Loon Lake Campground  
P.O. Box 345  
Newport, NH 03773

RE: Overflow Dam #055.03, Croydon

Dear Ms. Barnes

The Department of Environmental Services, Dam Bureau (DES) consistently strives to enhance the safety of dams in New Hampshire through its dam safety program. One of the many instruments that play a part in reaching this goal is our inspection program. DES is forwarding this correspondence to you to advise you that in accordance with RSA 482:12 and Env-Wr 502.02, an inspection of the subject dam was conducted on July 10, 2002. During this visual inspection and/or file review, the following deficiencies were observed:

There was brush along both abutments on the upstream face of the dam and along the left downstream embankment and toe of the dam;

2. There were cracks noted in the following locations:
  - a. Concrete spillway surface on both sides and approximately paralleling the 8 foot diameter discharge pipe;
  - b. Concrete surface at the location of the vertical steel channels to the stoplog bays. As noted in past reports, the channels are structurally supported by a horizontal channel and the steel drop inlet pipe and, therefore, are not completely reliant on the concrete for structural support. It is unclear how deep these cracks go vertically along the stoplog bay channels; and

These cracks do not seem to have worsened since the last scheduled inspection. The dam owner is monitoring the cracks and keeping a log of observations. These cracks should also be measured during the next DES inspection at the dam.

3. It was difficult to inspect the toe of the downstream left embankment for seepage due to vegetation although the toe did appear wet.

DES believes that the above deficiencies can be corrected by performing the following items by the indicated schedule:

**June 1, 2003:**

1. Remove brush within 20 feet of the spillway on the upstream face of the dam along both the right and left abutments. Remove brush from the downstream left embankment and within 10 feet of the downstream toe of the dam. Notify this office so that a follow-up inspection can be conducted and the downstream toe can be inspected for seepage;

**October 1, 2003:**

2. Repair the cracks noted in the following locations:
  - a. Concrete spillway surface on both sides and approximately paralleling the 8-foot diameter discharge pipe;
  - b. Concrete surface at the location of the vertical steel channels to the stoplog bays.

DES is requesting that you complete and submit the attached "Intent to Complete Repairs" form, within 30 days of receipt of this letter, that will provide for correction of the identified deficiencies by the date(s) indicated above. If you believe changes to the items of work or dates are necessary, please make the changes directly on the form and provide a brief explanation. We have enclosed a self addressed stamped envelope for you to return this form.

Our intent in sending you this correspondence is to make you aware of items that DES believes warrant your attention to insure the continued safe operation of your dam. It is our hope that, through the submittal of the attached form and a commitment to keeping a well-maintained dam, you will voluntarily comply with the requested items of work. If we do not receive the intent form or a similarly adequate written reply, we will assume that you are in agreement with our findings and recommendations and DES will carry out follow-up inspections accordingly.

If you have any questions or comments regarding this Letter of Deficiency or would like to be present at future inspections, please contact me at 271-3406, or write to the Water Division at the address listed on the top of the previous page.

Sincerely,

  
**COPY**

Grace E. Levergood, P.E.  
Dam Safety Engineer

Attachments DB8, DB13

cc: Gretchen Rule ✓

Town of Croydon

Certified # 7000 1670 0000 0586 1346

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